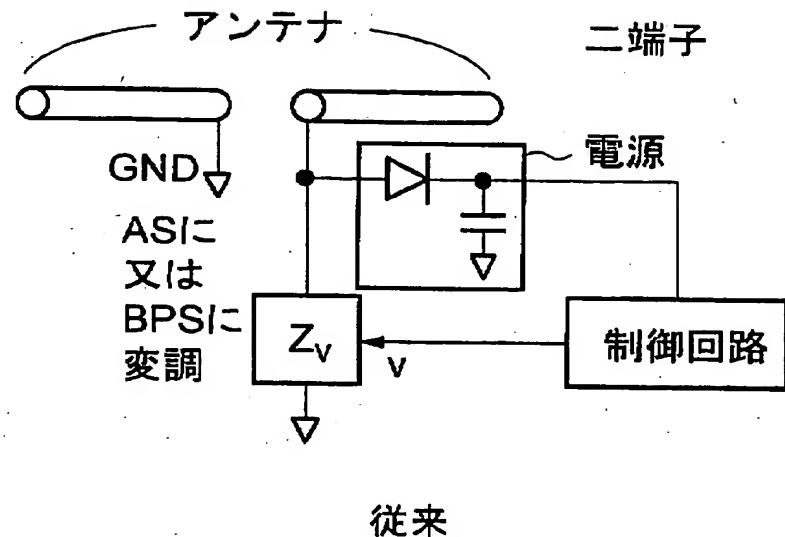
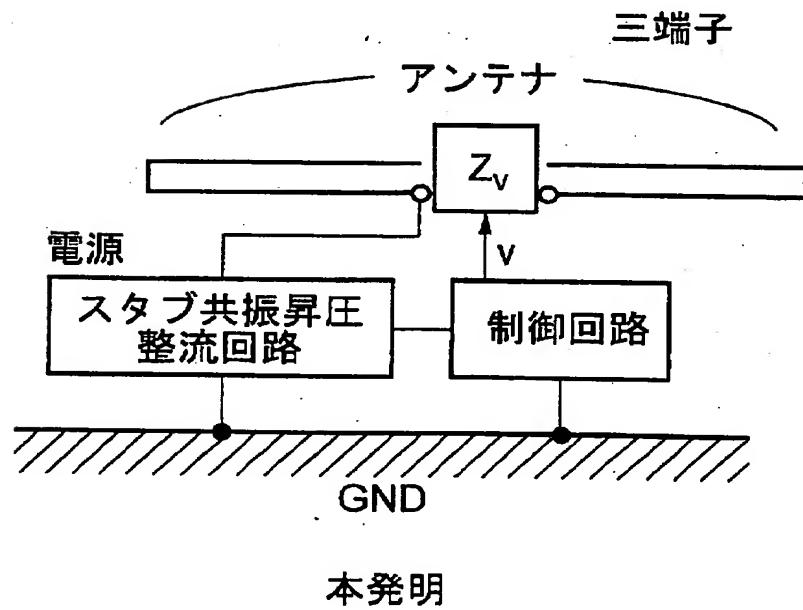


[図1]

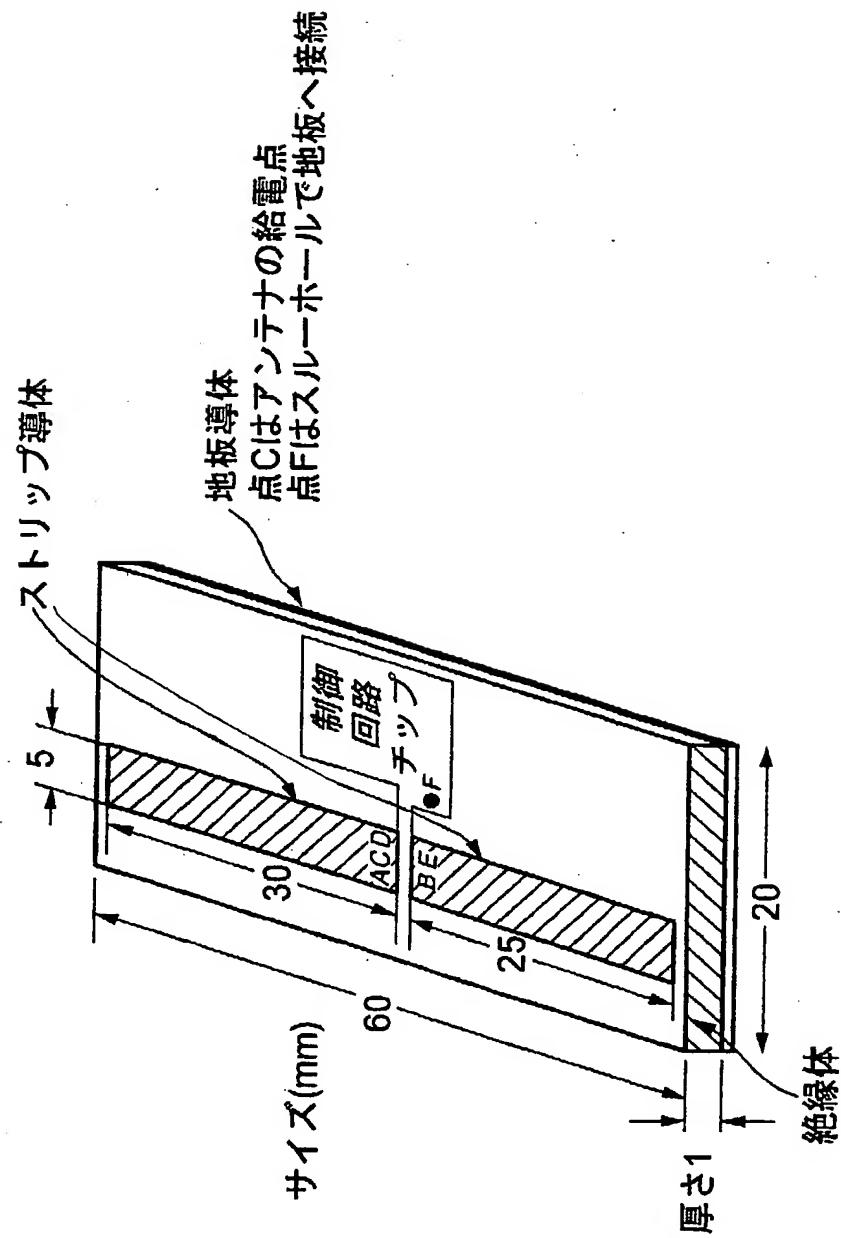


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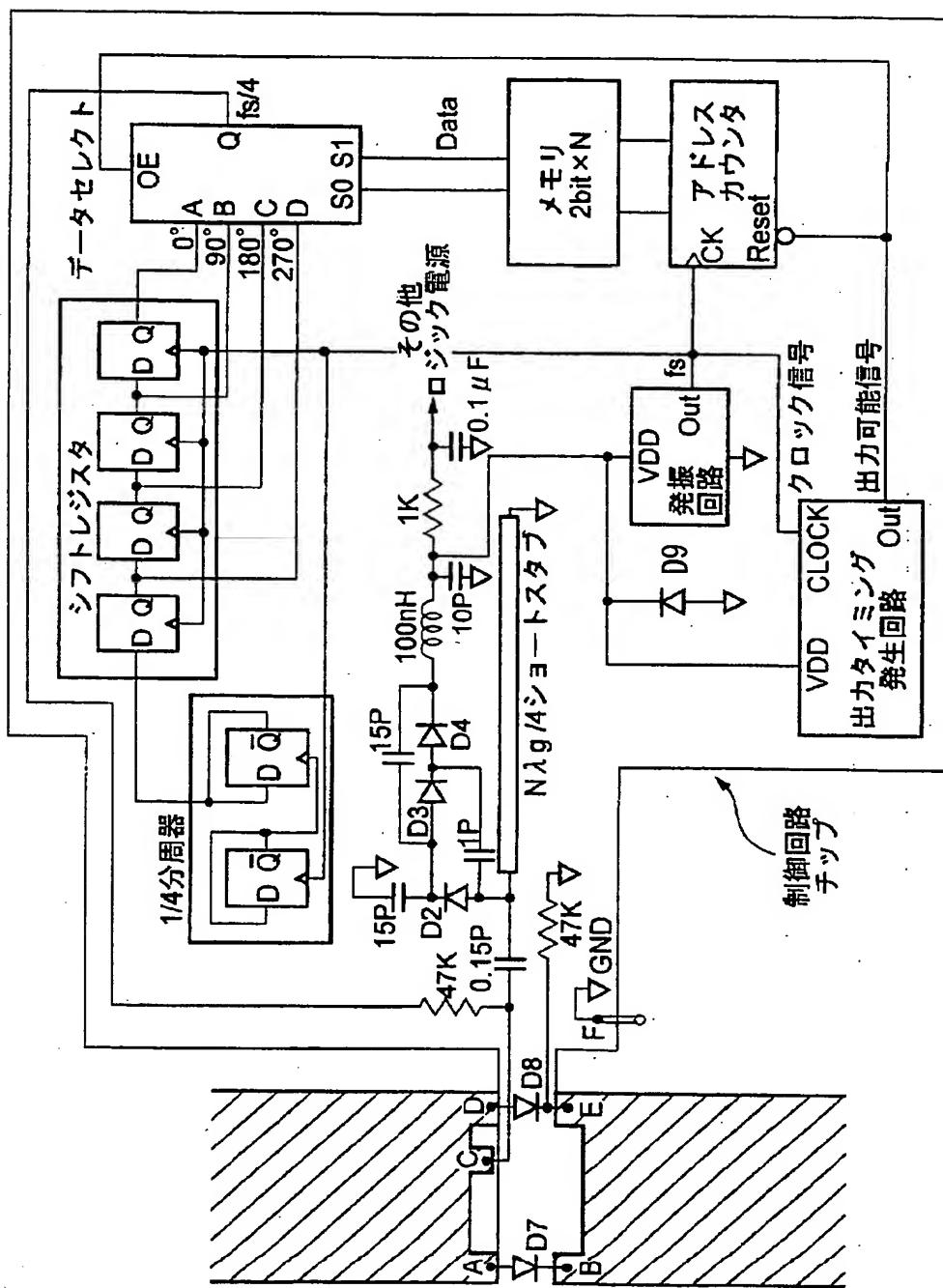


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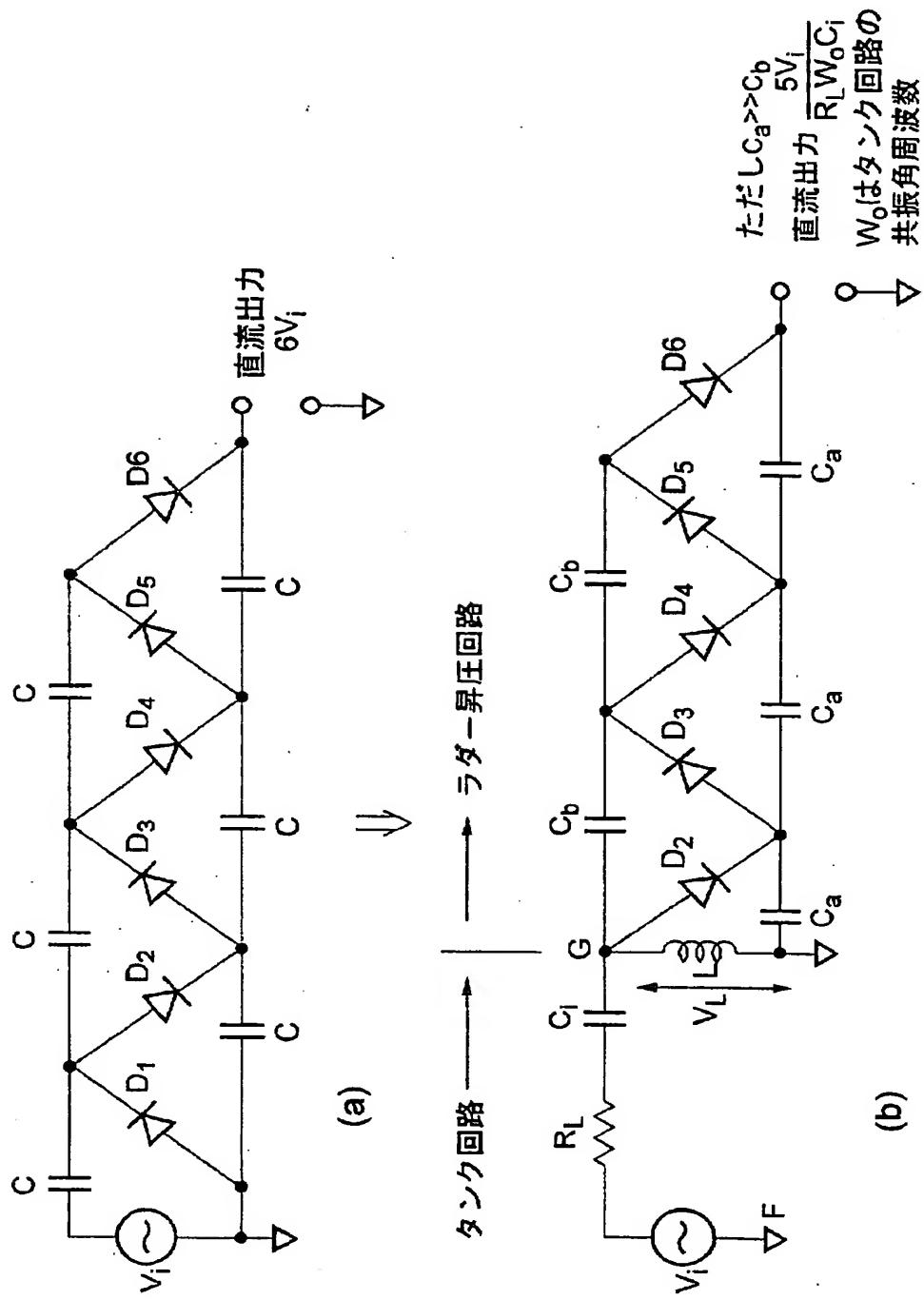
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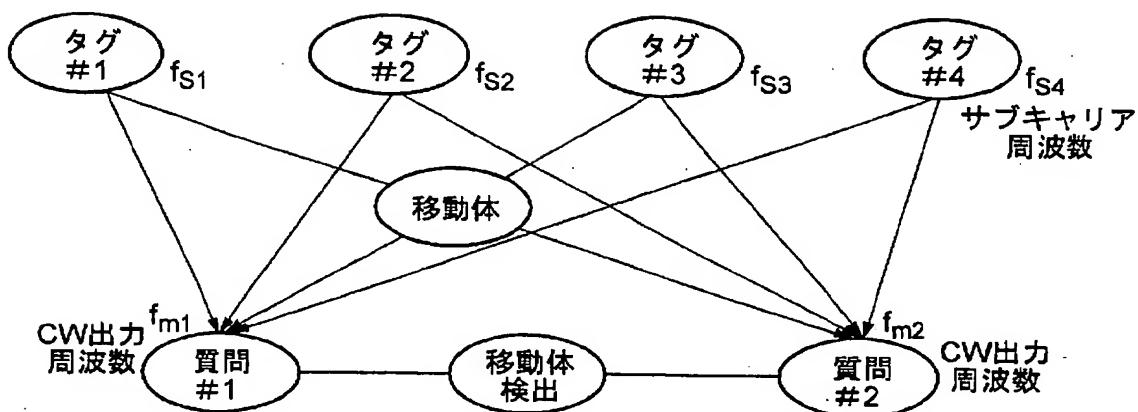
[図4]



[図5]



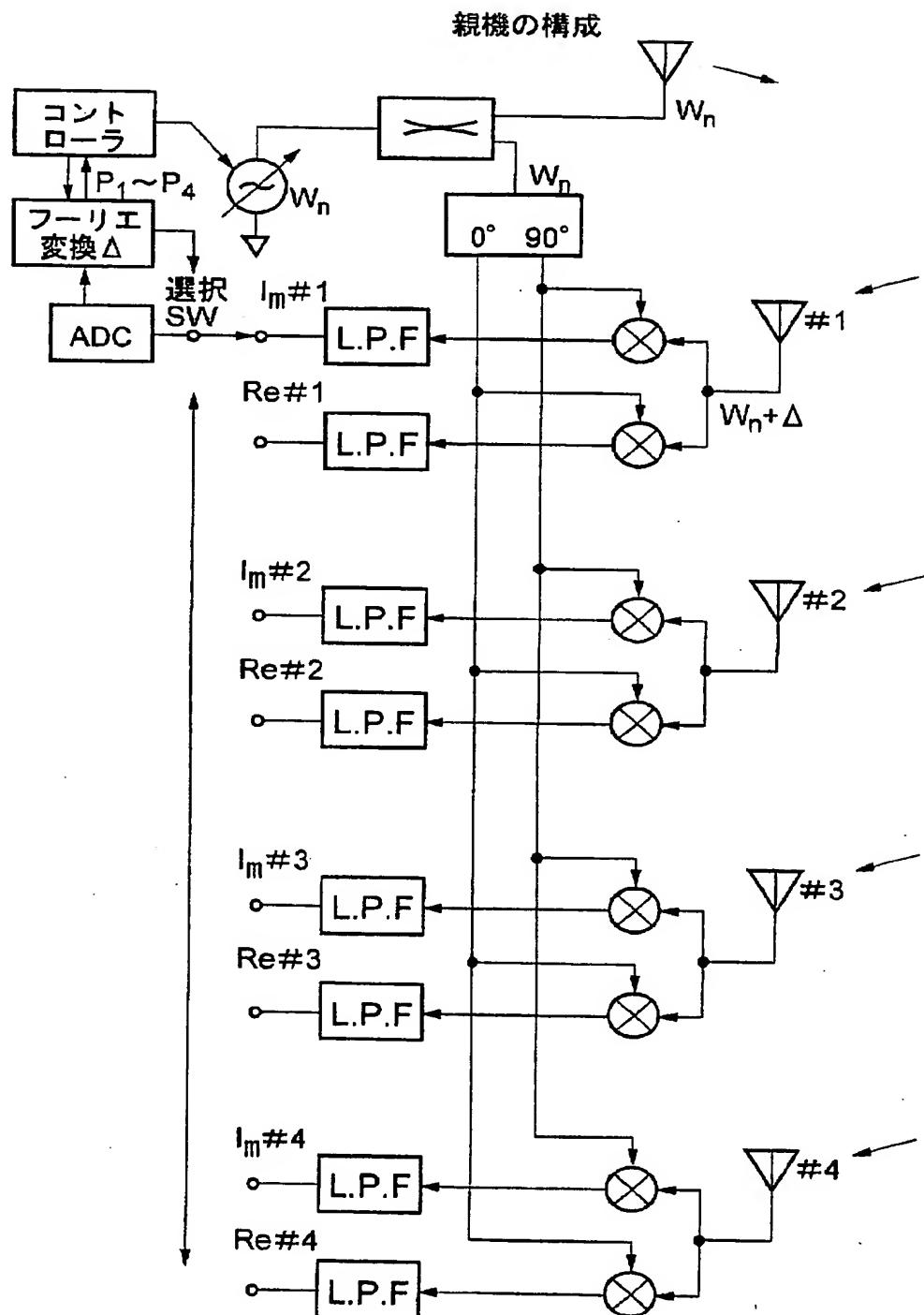
[図6]



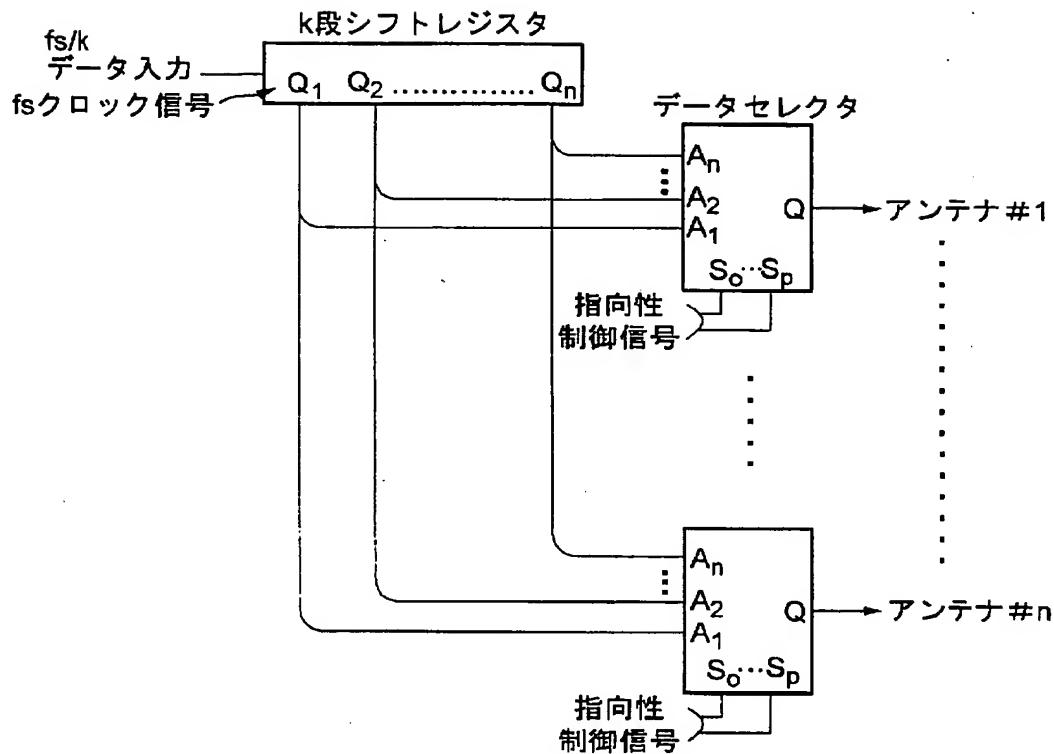
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	#2	×	○	○	○

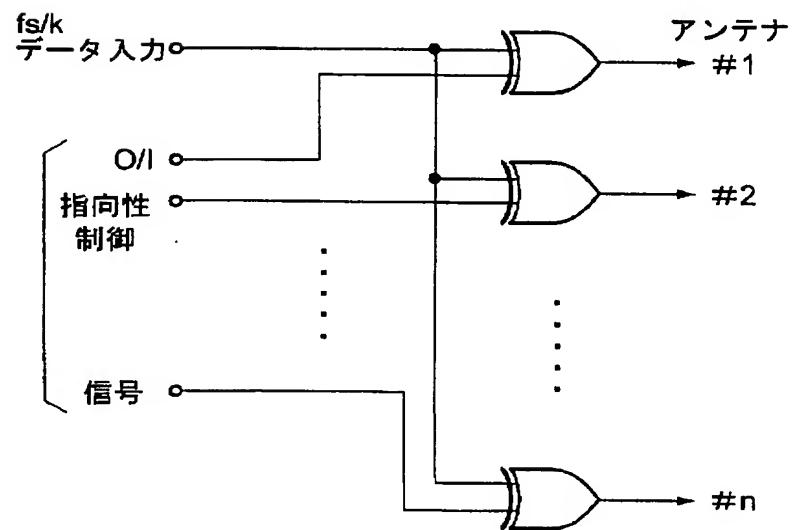
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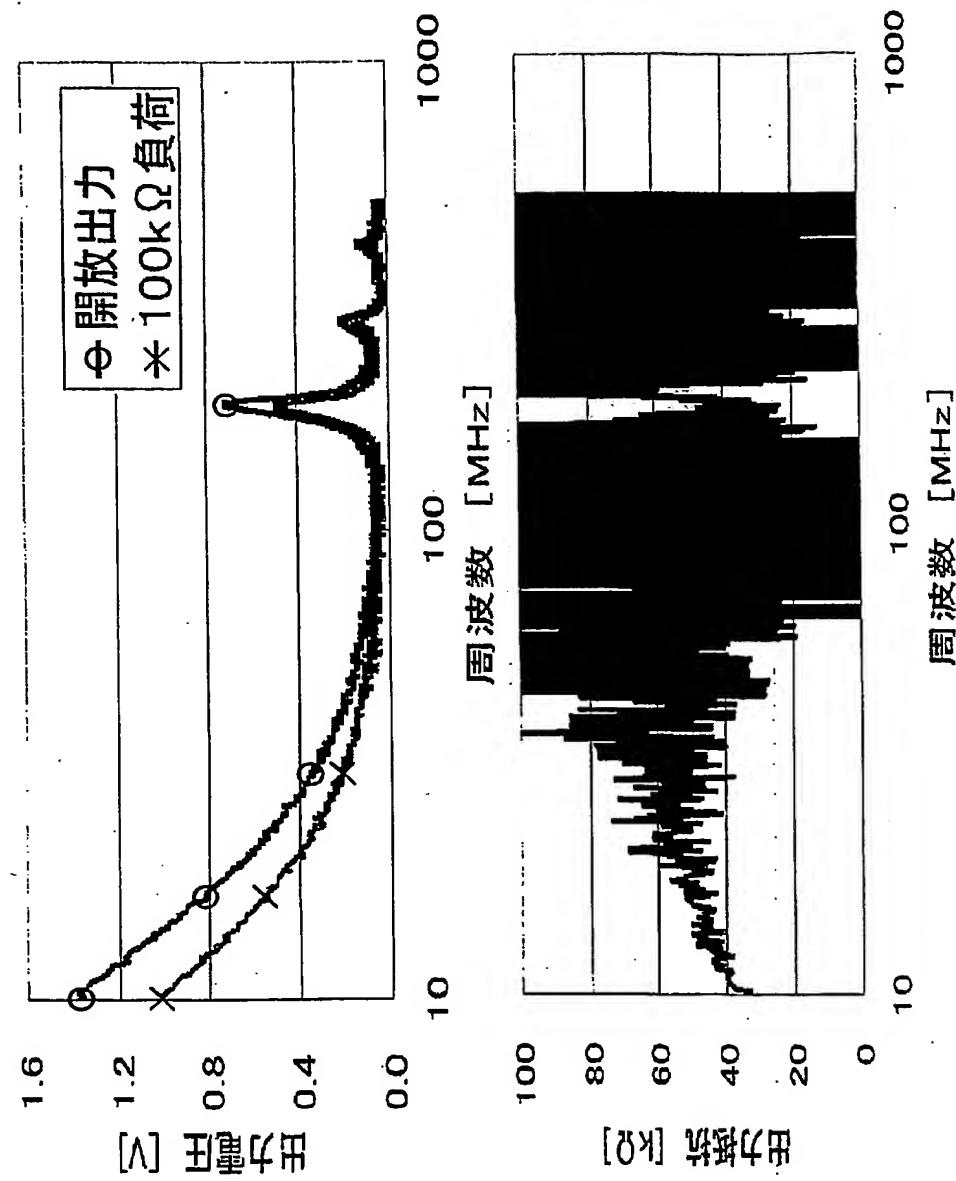
[図8]



[図9]

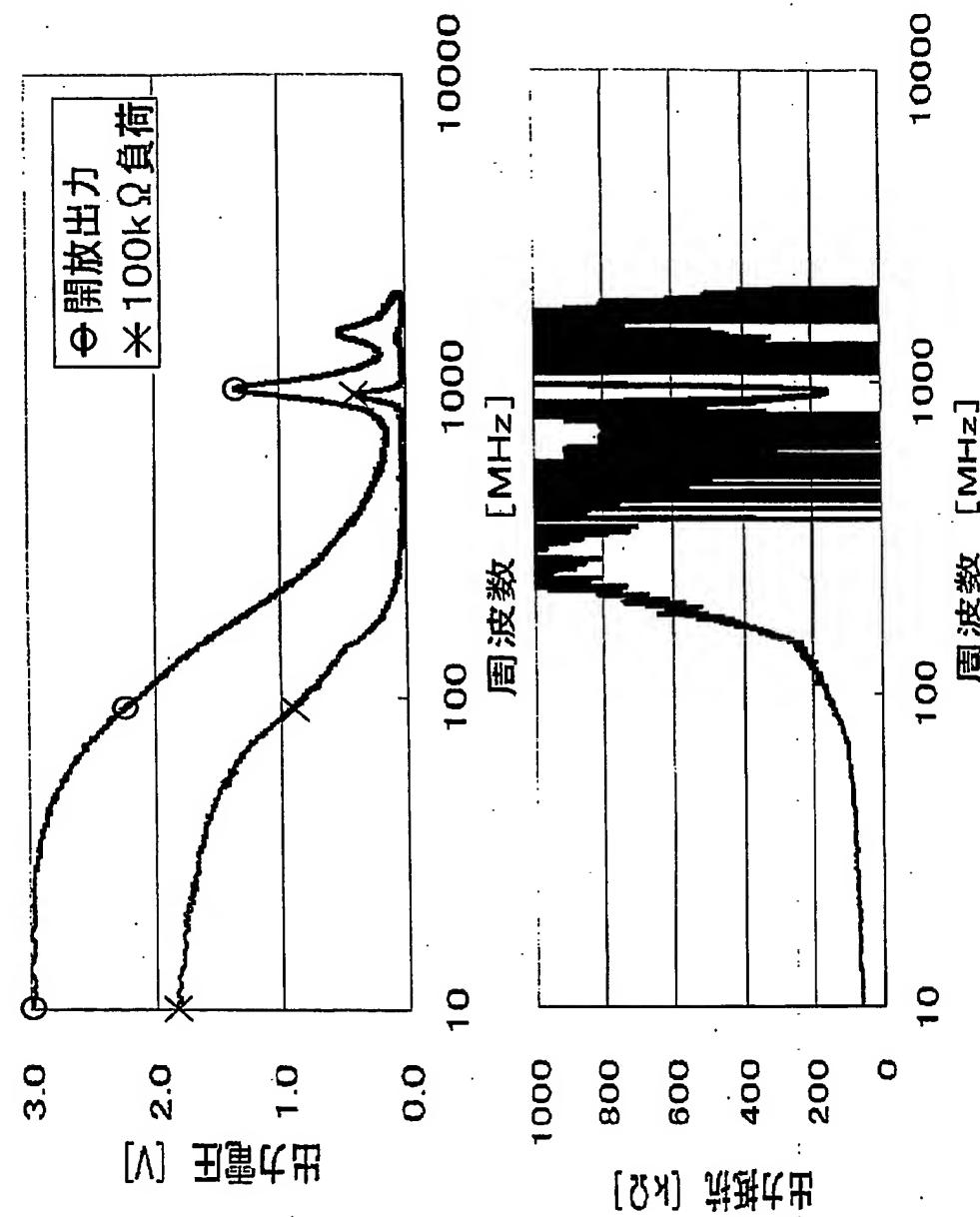


【図10】

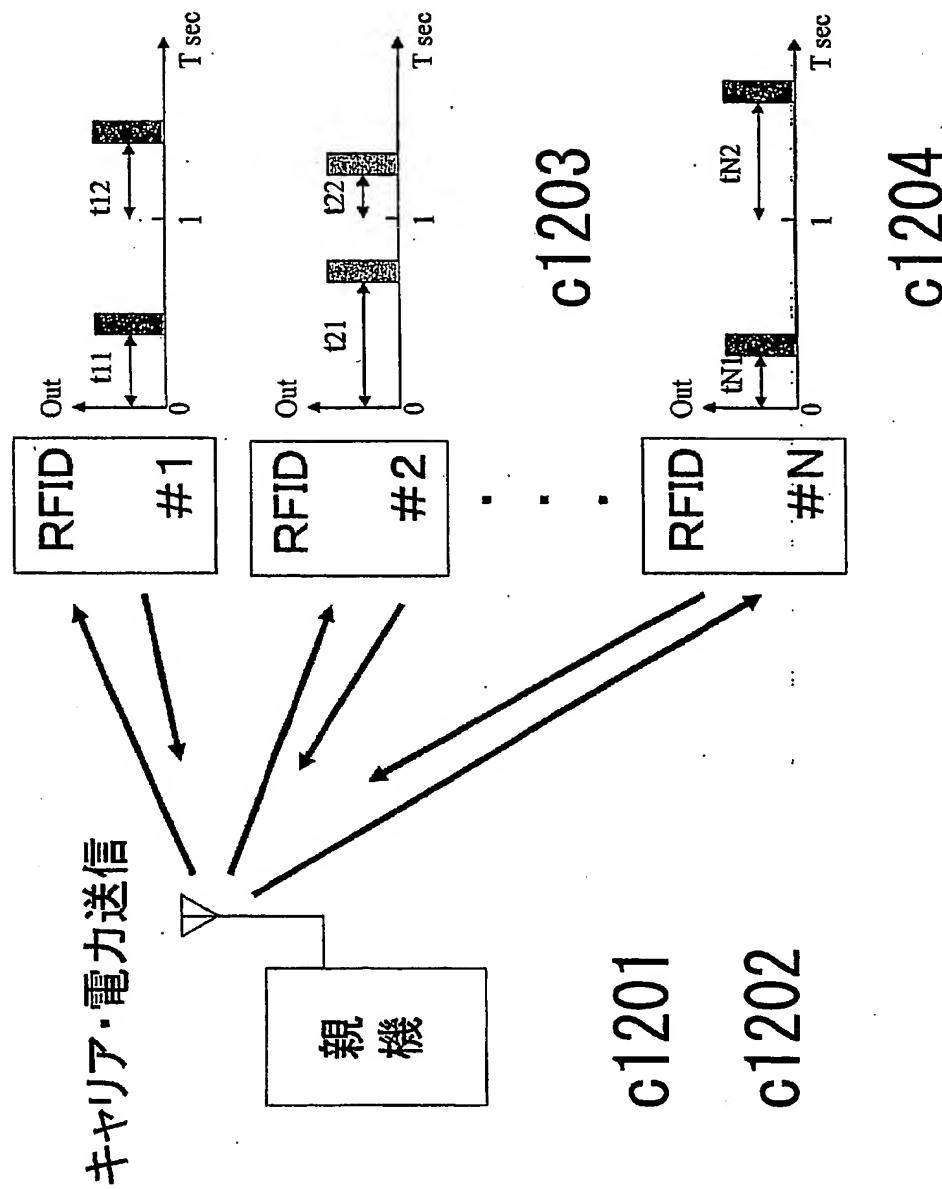


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【図 1 1】

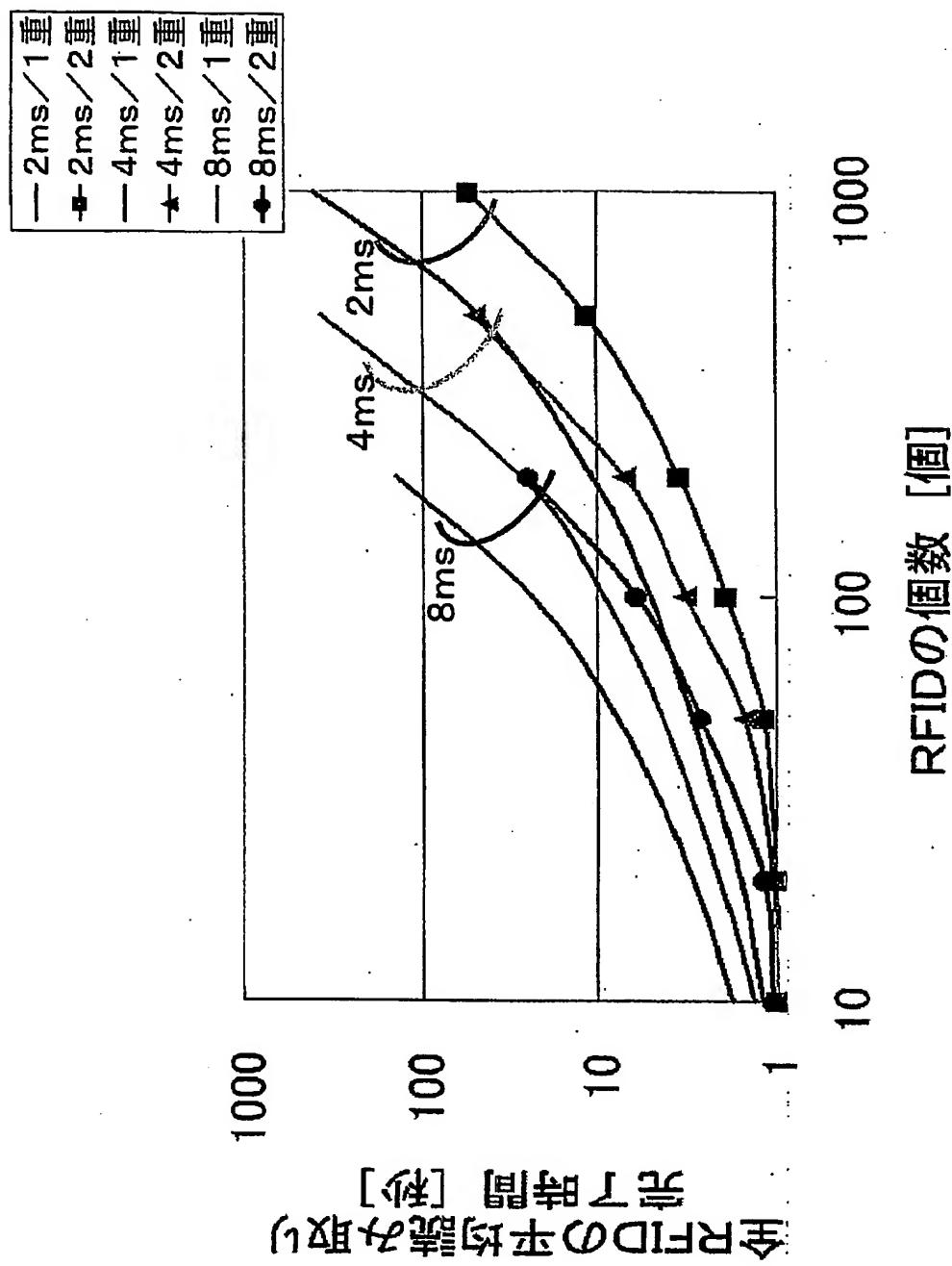


【図12】

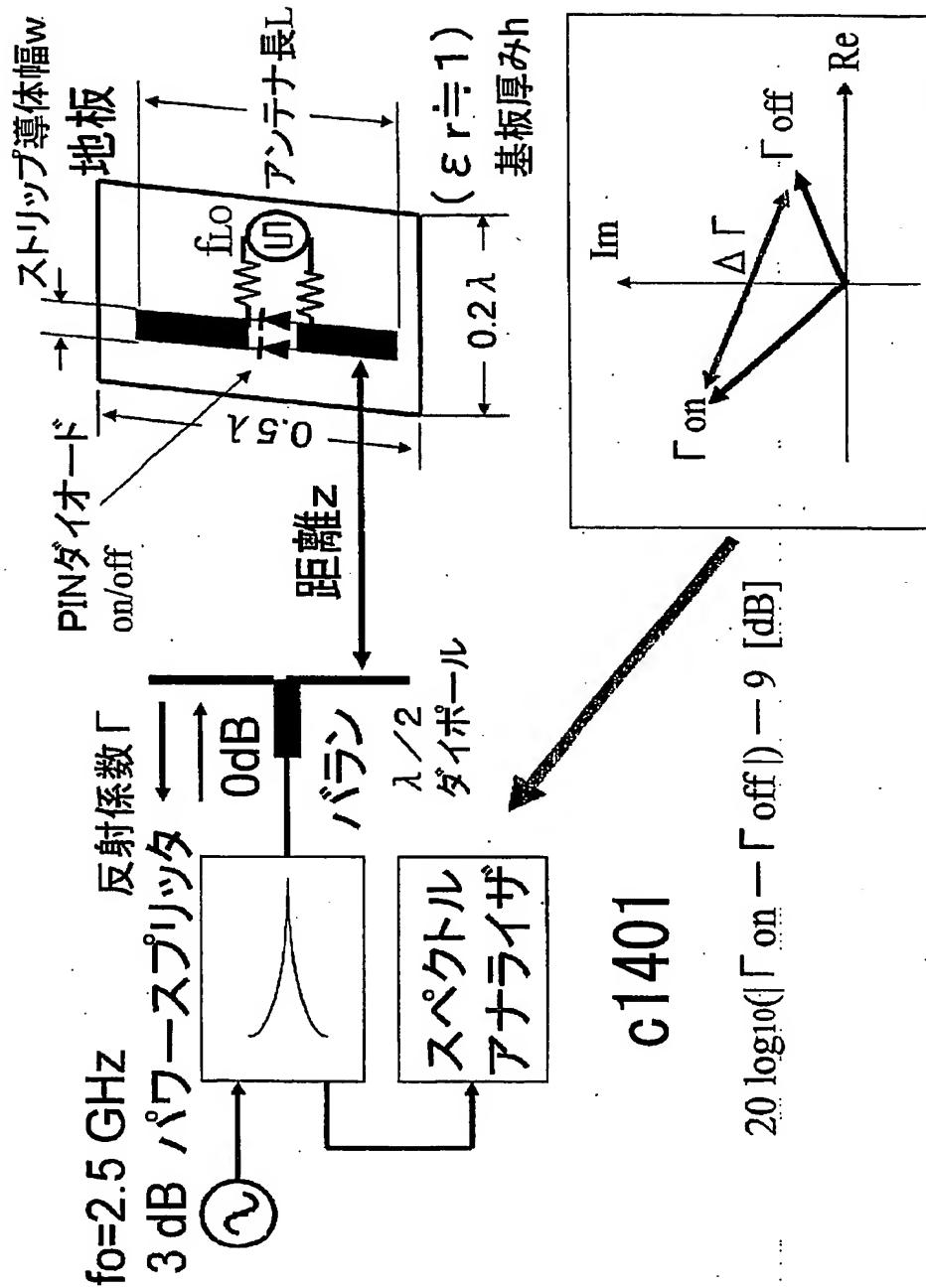


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【図13】

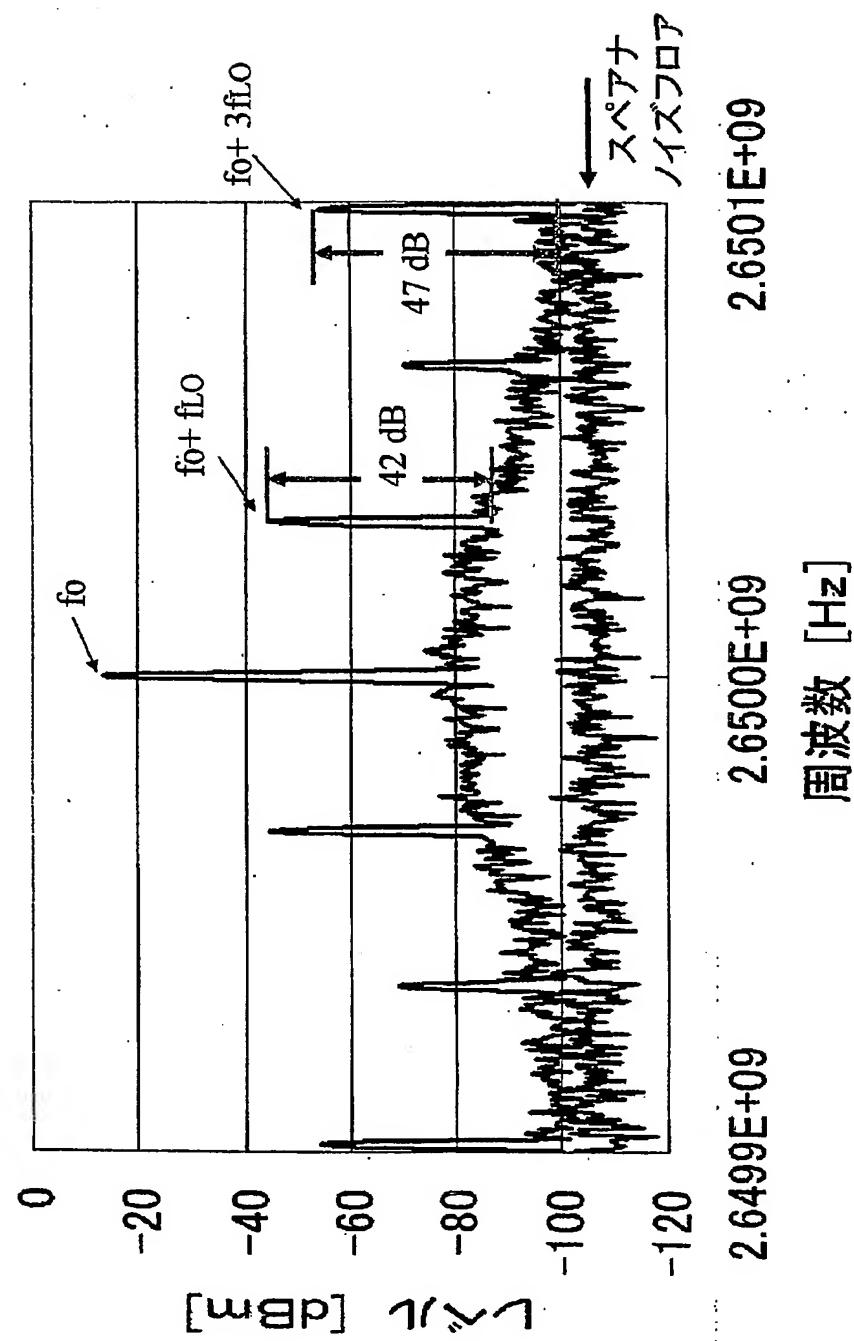


【図14】

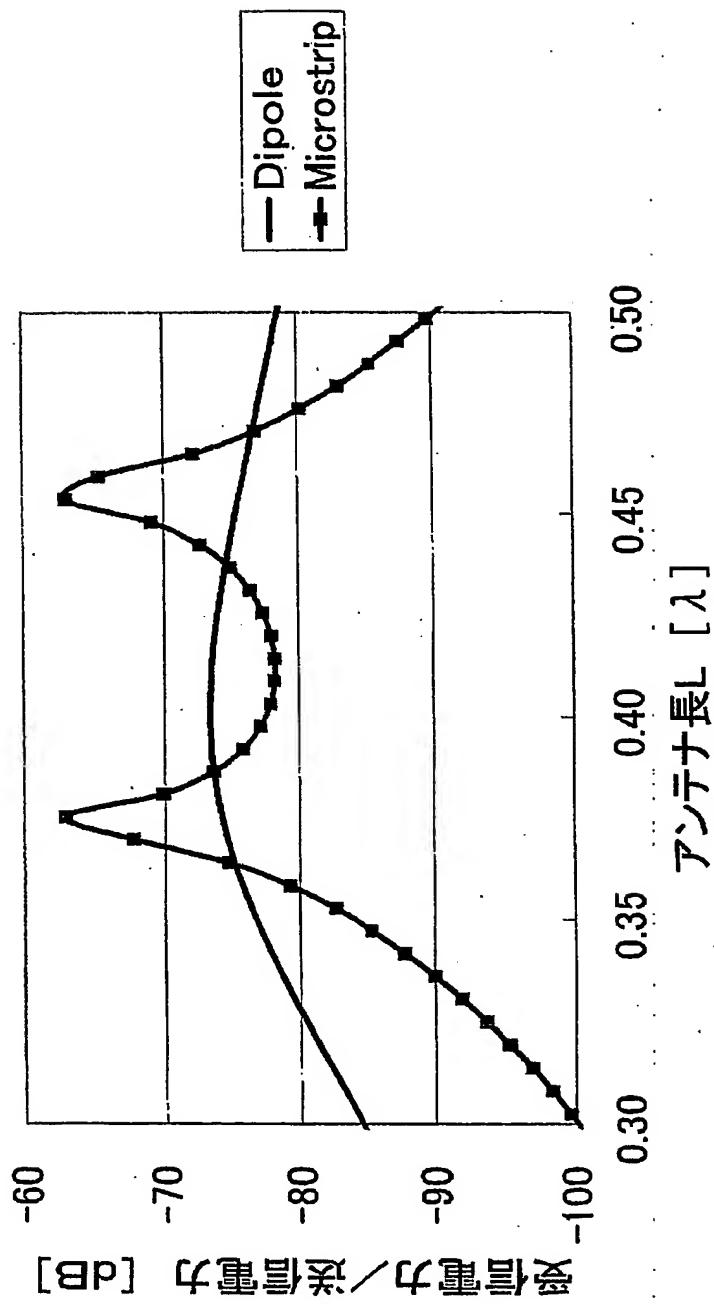


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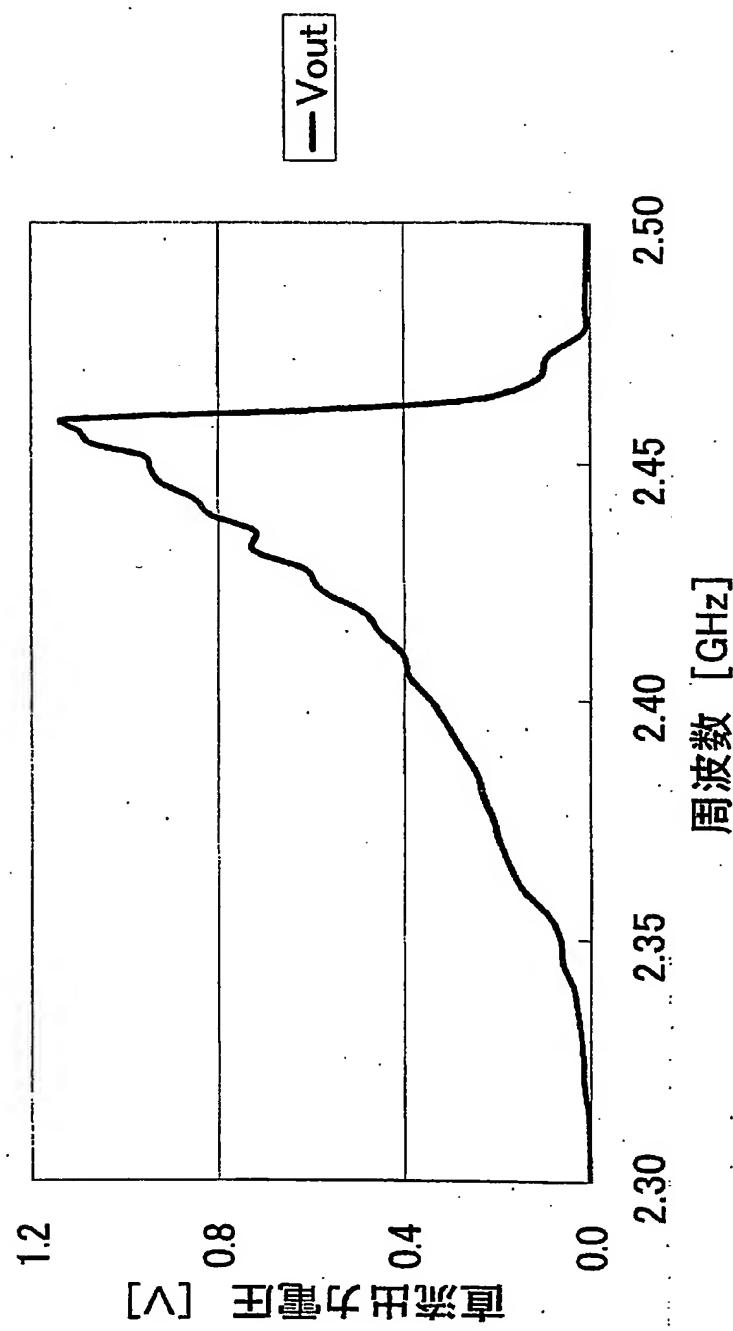
【図15】



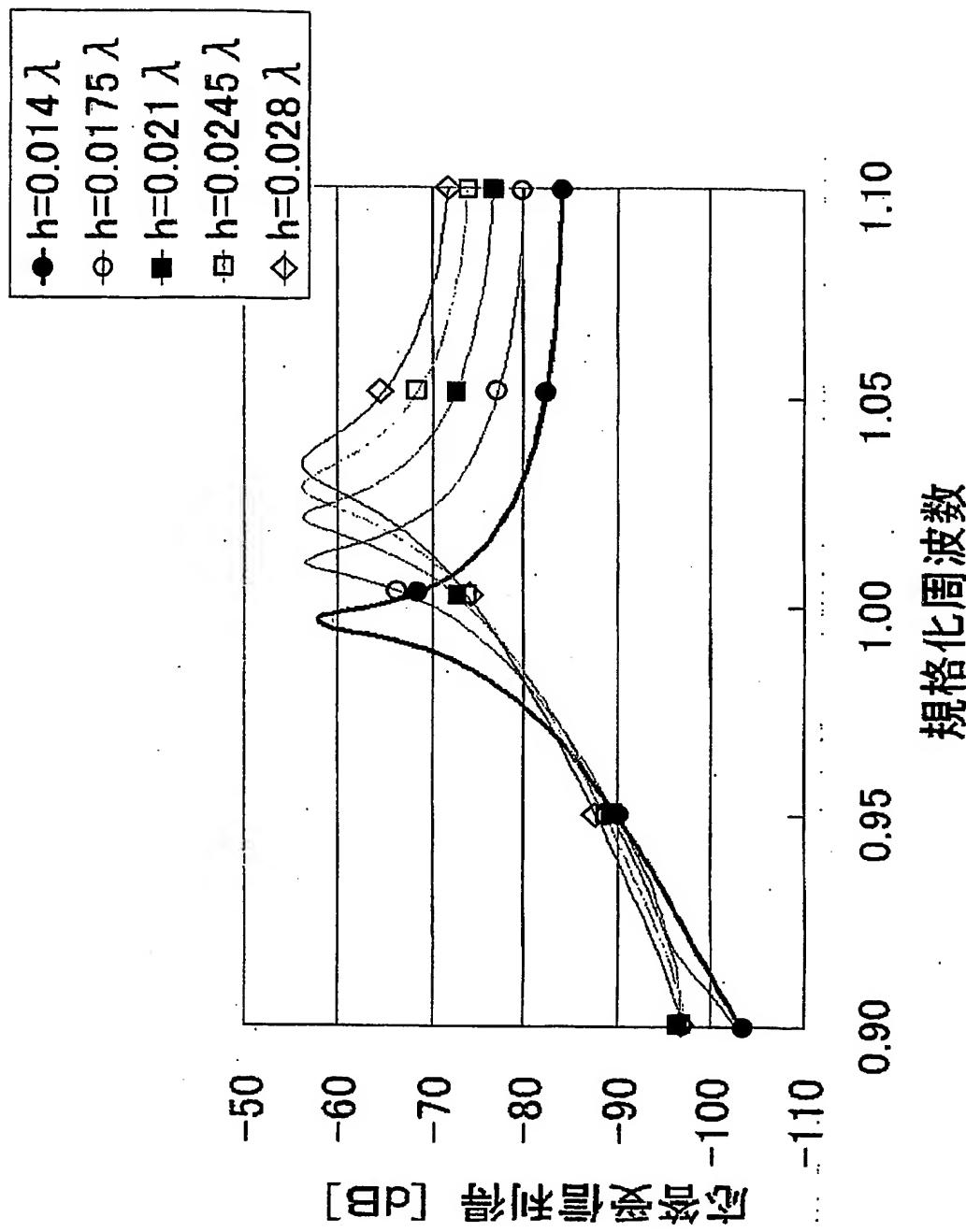
【図16】



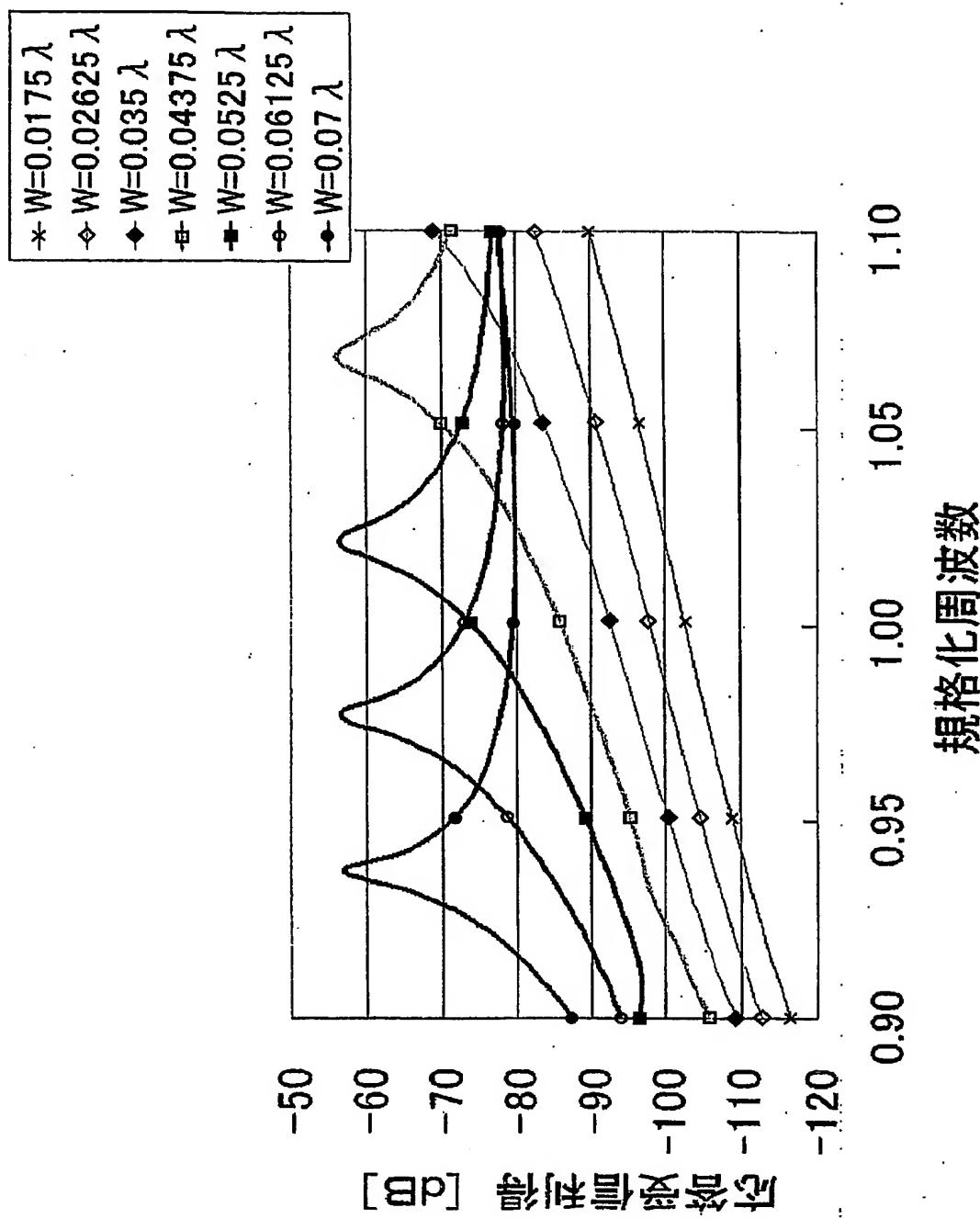
【図17】



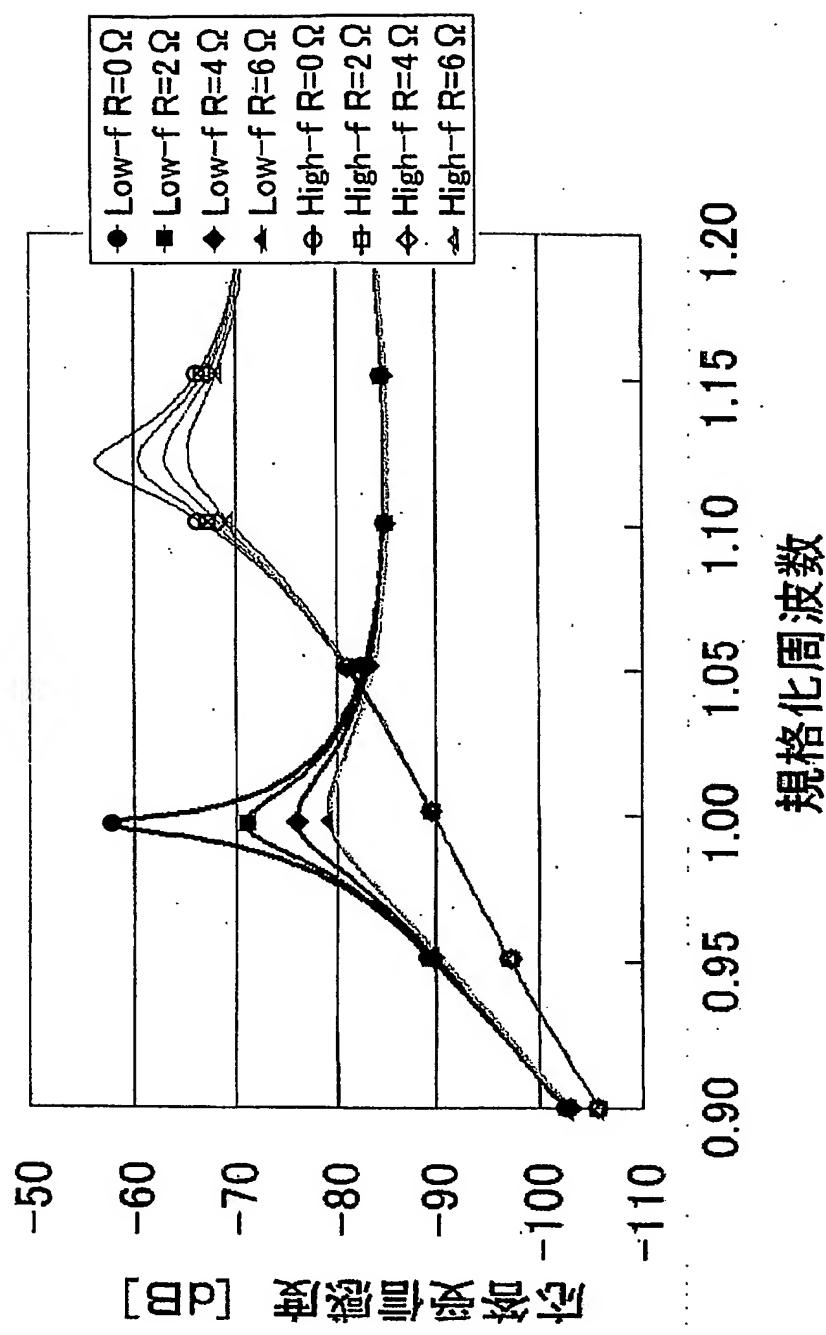
【図18】



【図19】

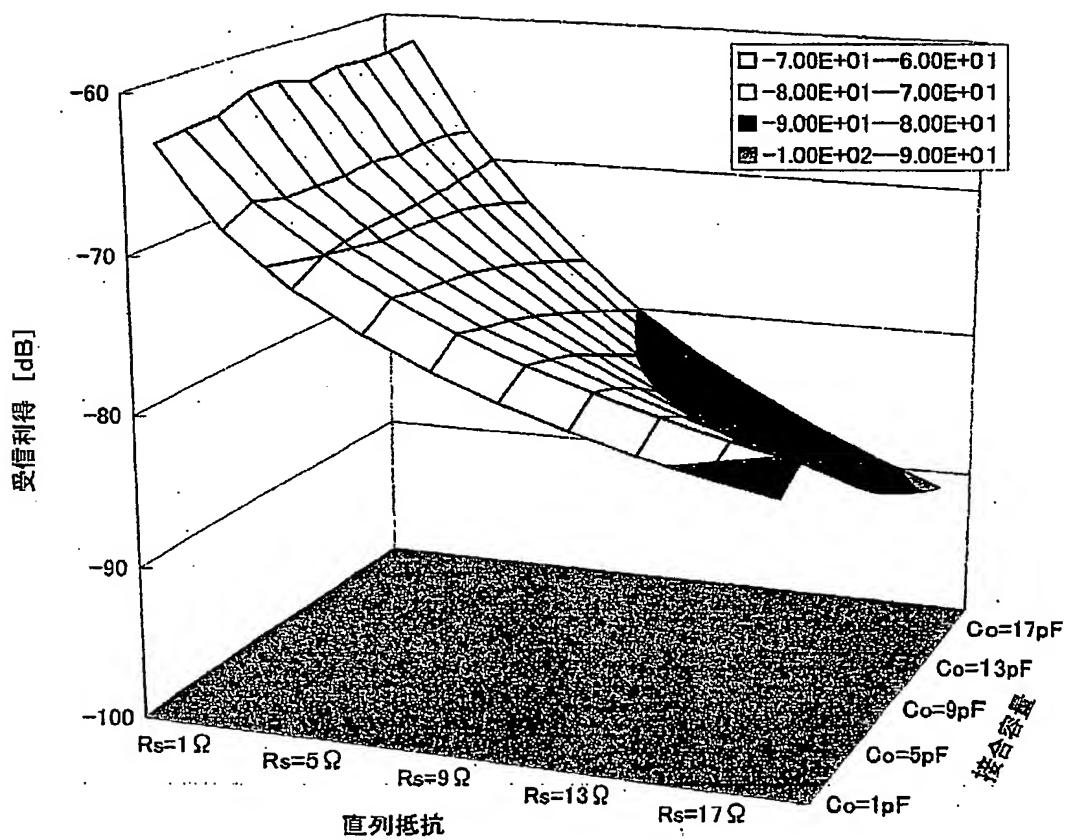


【図20】

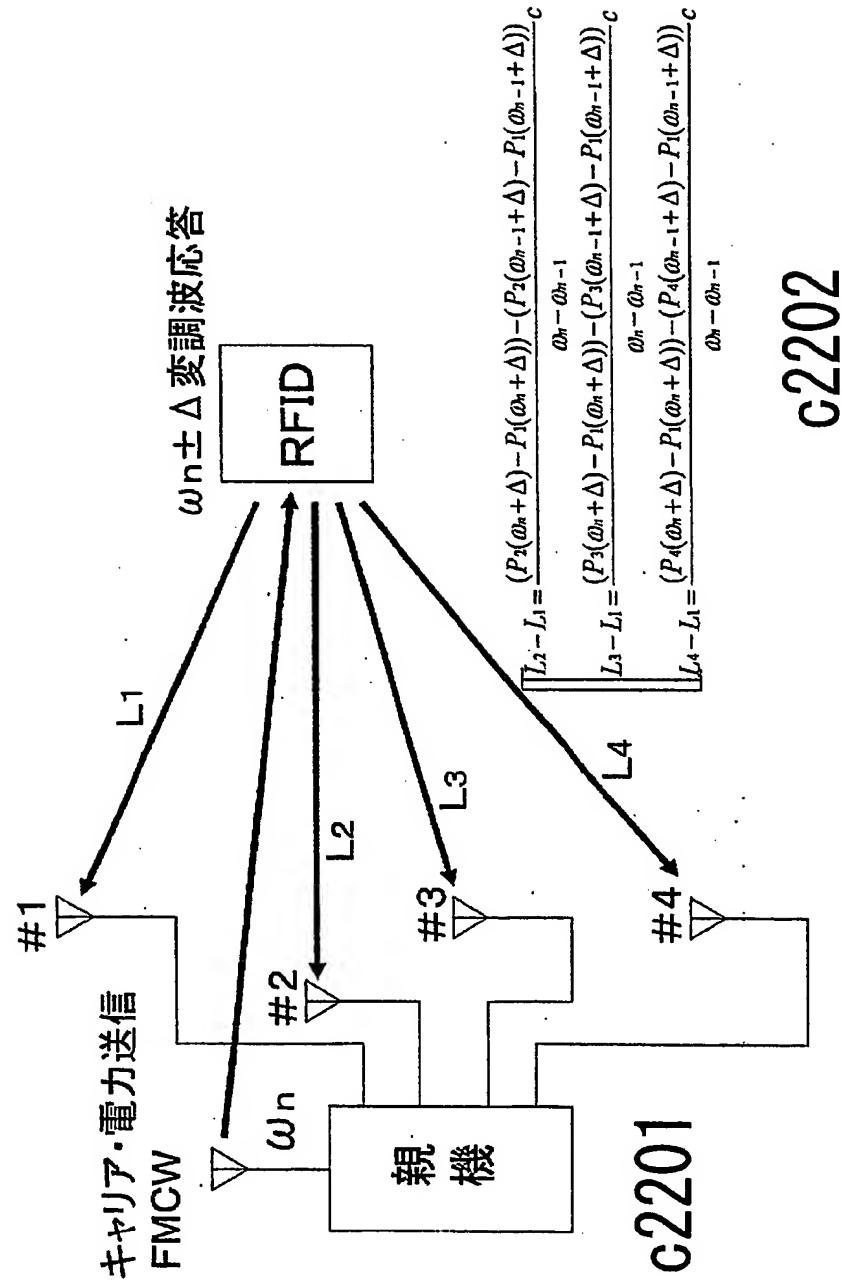


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【図21】

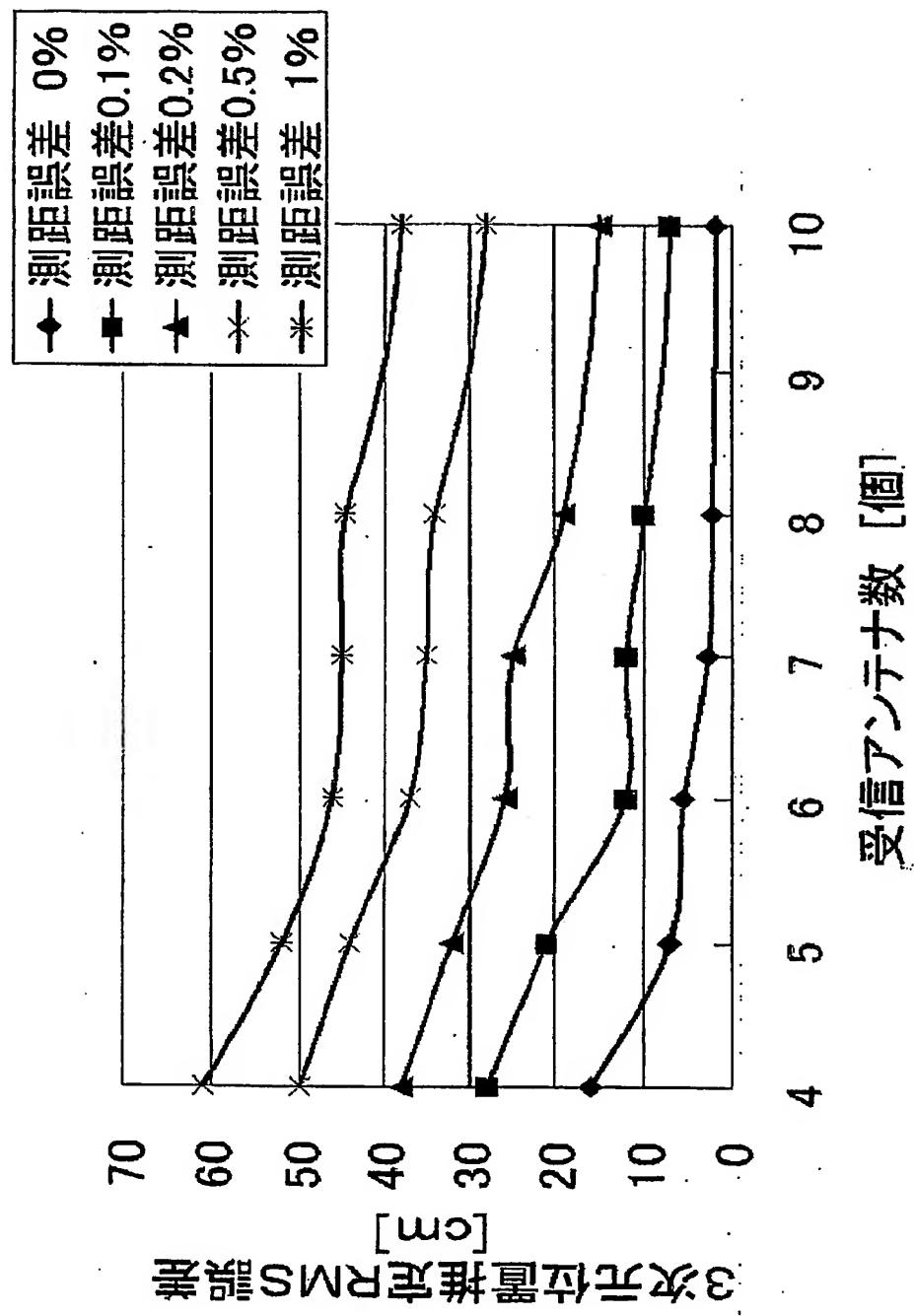


【図 22】

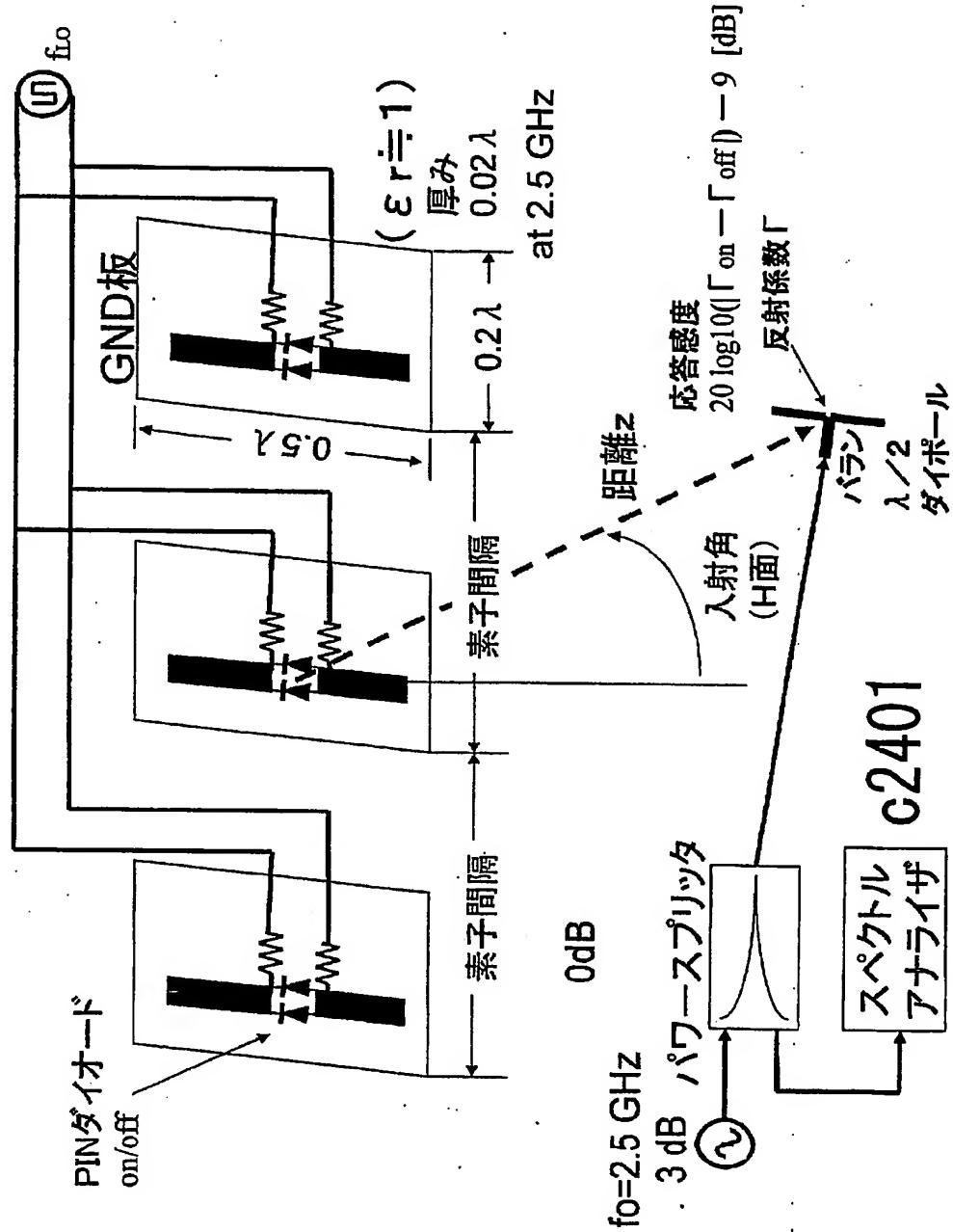


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【図23】

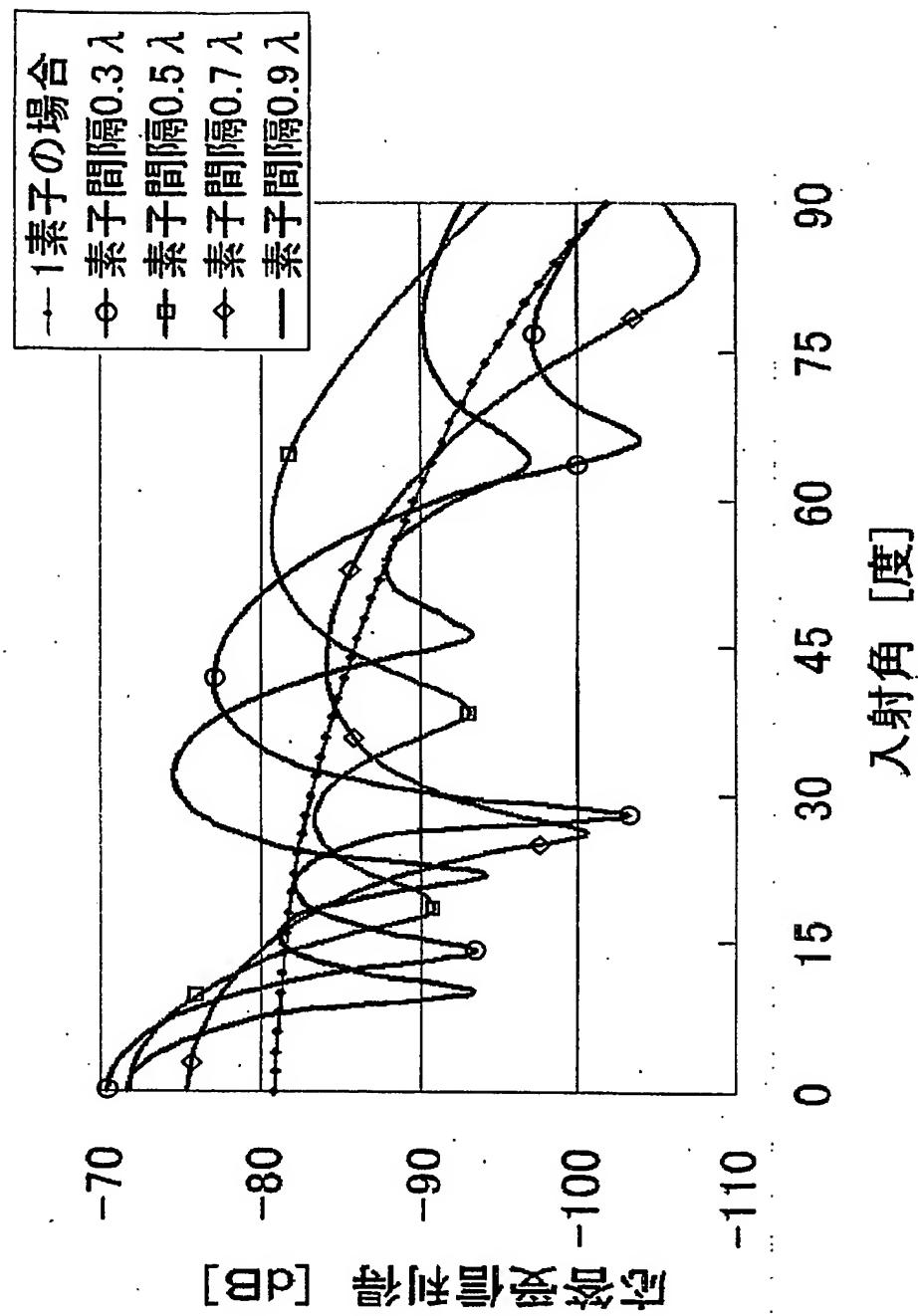


【図24】

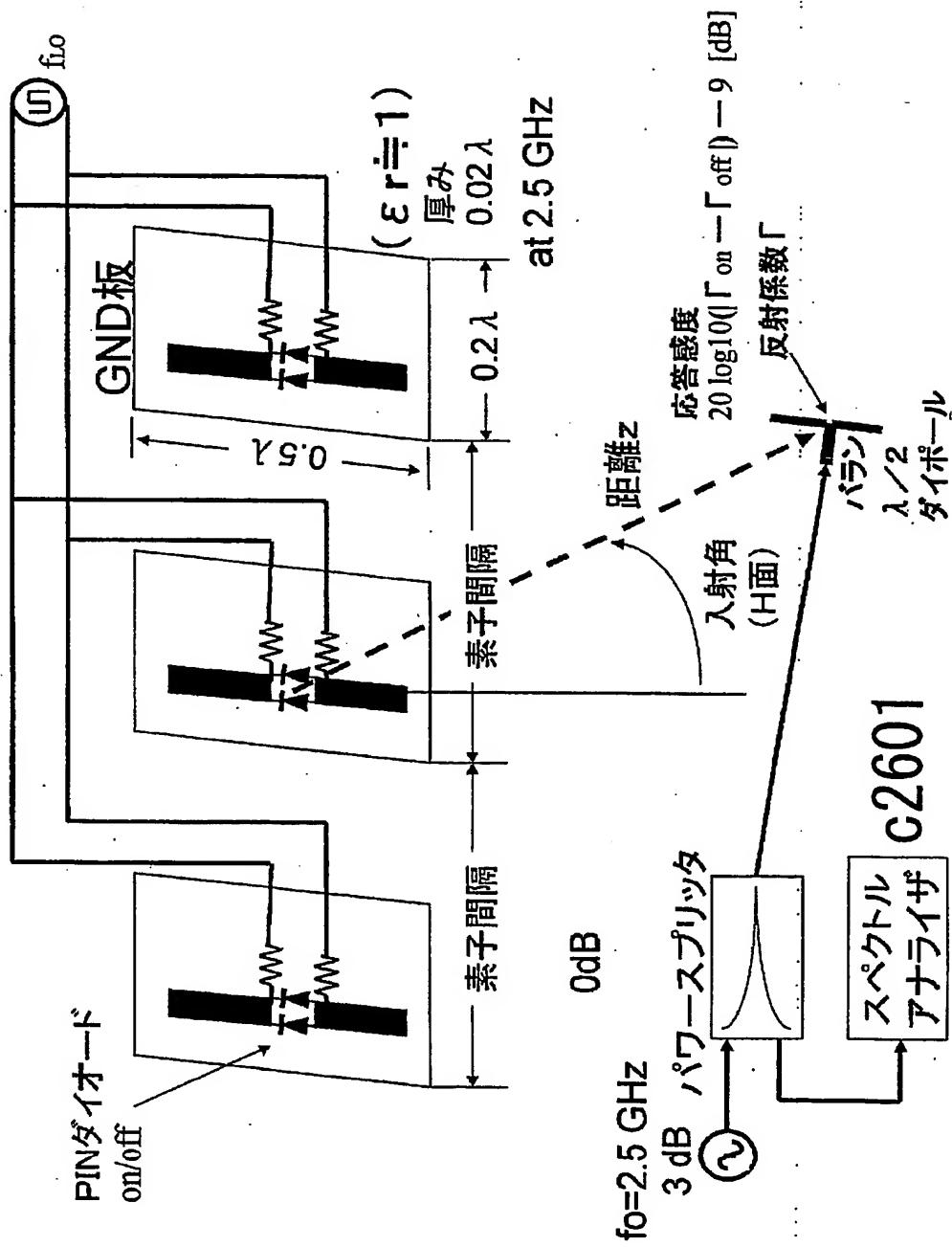


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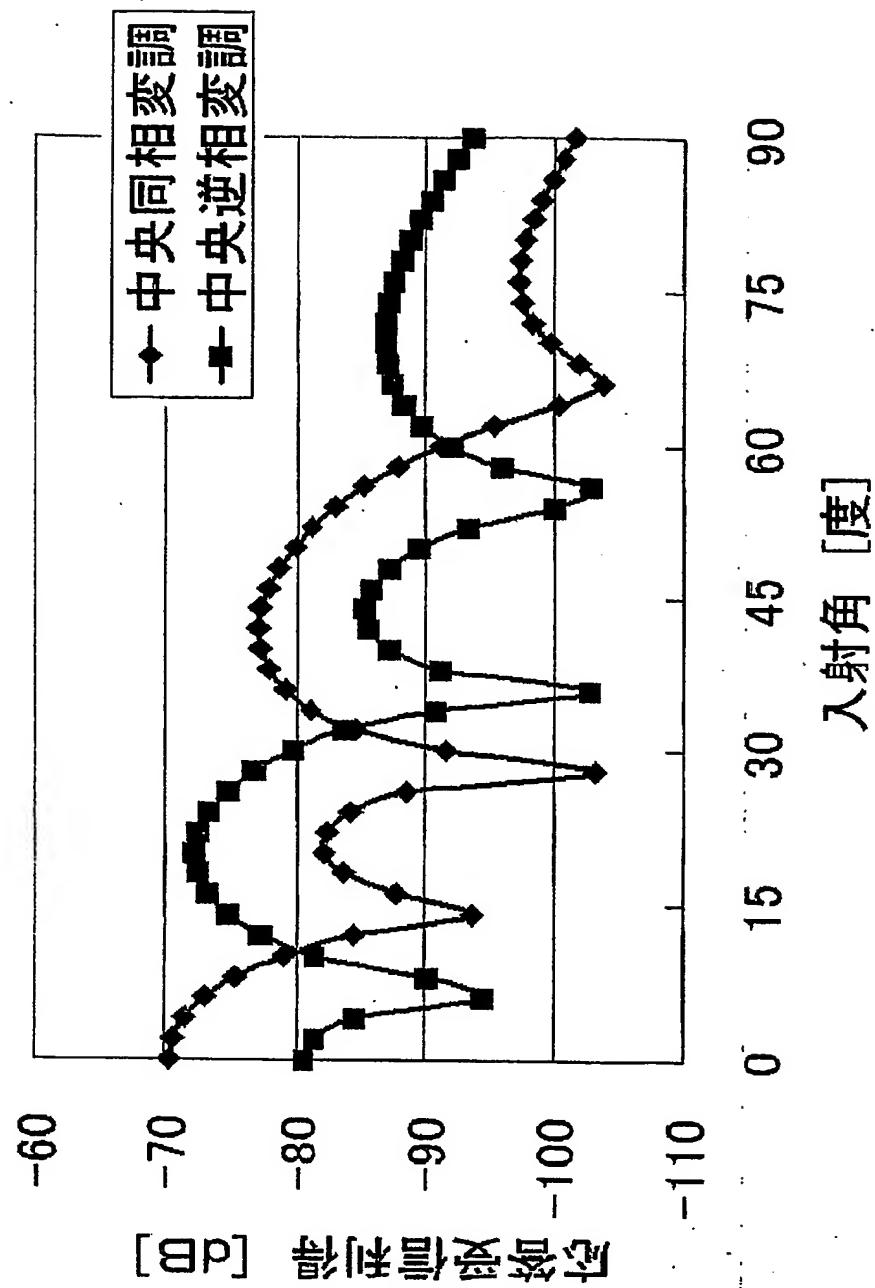
【図25】



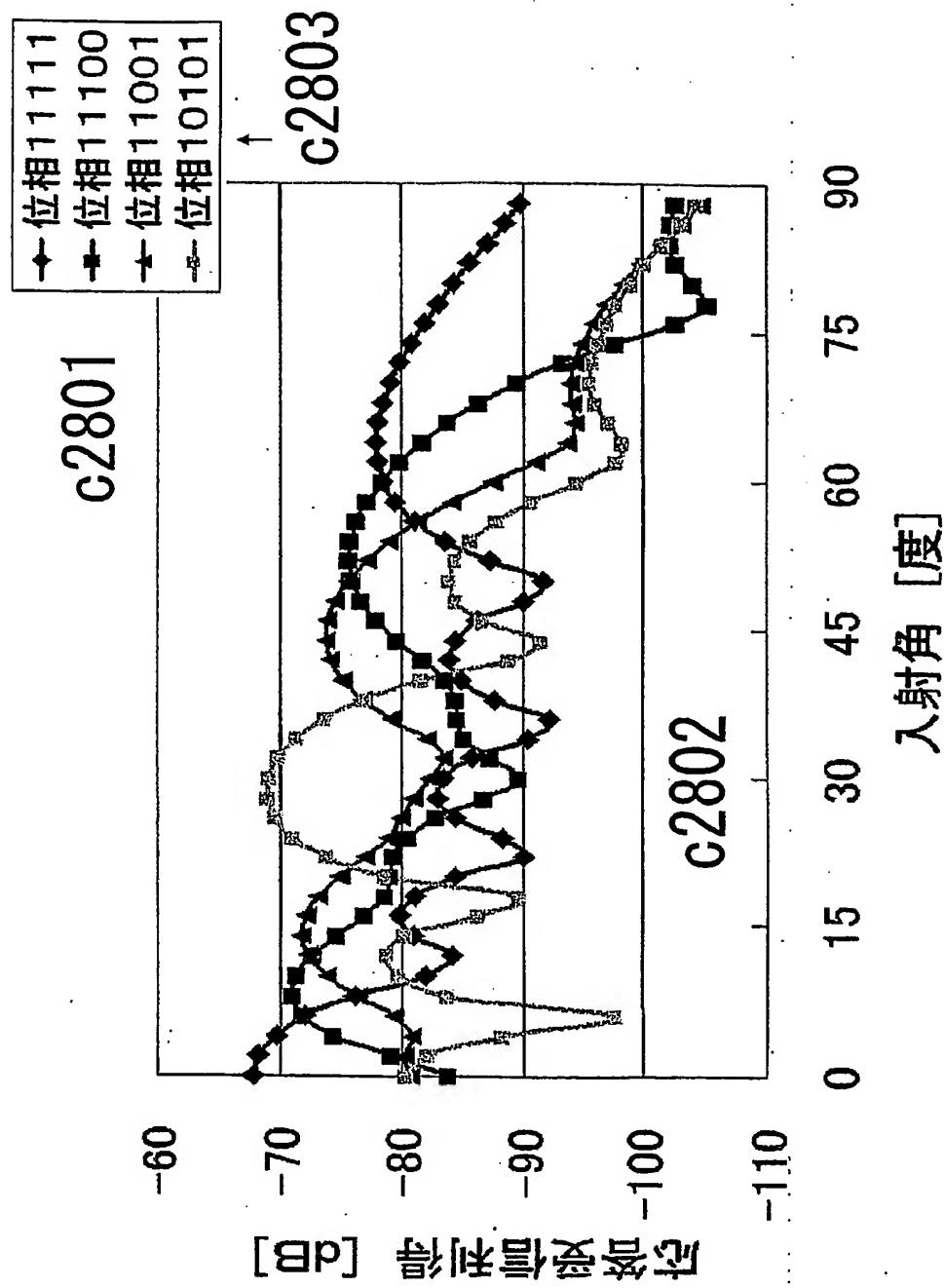
【図26】



【図27】



【図28】



[図29]

```

real*4 ep(5), x(5), y(5), z(5), xs(5), ys(5), zs(5)
real*4 al(200), bl(200), cl(201)

iij=1234556
f0=0.05
dih=15.0/f0      ! cm ] (1)
na=16
write(*,10)
format(' Enter the location of x,y,z (cm) : '$) (2)
read(*,*,end=90) xp, yp, zp

call marray(xp, yp, zp, na, cl) (3)
do i=2, na+1
  verr=ran(iij)
  al(i-1)=cl(i)*(1.0+(verr-0.5)*0.001)-cl(1) ! noise 0.1 %
end do ] (4)
write(*,*) ' <L(cm)', (al(i), i=1, na)
write(*,*)

call mcycle(na, dih, al) (5)

do i=1, 5
  ep(i)=1.0e20
end do

do ix=-30, 30
  xp=float(ix)*10.0
  do iy=-30, 30
    yp=float(iy)*10.0
    do iz=-30, 30
      zp=float(iz)*10.0 ] (6)
    call marray(xp, yp, zp, na, cl) (7)
    do i=2, na+1
      bl(i-1)=cl(i)-cl(1)-al(i-1) (8)
    end do

    call mcycle(na, dih, bl) (9)
    er=0.0
    do i=1, na
      er=er+bl(i)**2 (10)
    end do
    do i=1, 5
      if (er .lt. ep(i)) then
        if (i .ne. 5) then
          do j=5, i+1, -1
            ep(j)=ep(j-1)
            x(j)=x(j-1)
            y(j)=y(j-1)
            z(j)=z(j-1)
          end do
        end if
        ep(i)=er
        x(i)=xp
        y(i)=yp
        z(i)=zp
      go to 30 ] (11)
    end do
  end do
end do

```

[図30]

```

        end if
    end do
    continue
    end do
    end do
    end do

    do i=1,5
        xs(i)=x(i)
        ys(i)=y(i)
        zs(i)=z(i)
    end do

    write(*,*) ' RMS error (cm)      x      y      z' (12)
    do i=1,5
        write(*,*) sqrt(ep(i)/float(na)), x(i), y(i), z(i)
    end do

    do m=1,5
        x0=xs(m)
        y0=ys(m)
        z0=zs(m)
    do ix=-15,15
        xp=float(ix)+x0
        do iy=-15,15
            yp=float(iy)+y0
            do iz=-15,15
                zp=float(iz)+z0

                call marray(xp, yp, zp, na, cl)
                do i=2,na+1
                    bl(i-1)=cl(i)-cl(1)-al(i-1)
                end do

                call mcycle(na, dth, bl)
                er=0.0
                do i=1,na
                    er=er+bl(i)**2
                end do

                do i=1,5
                    if (er .lt. ep(i)) then
                        if (i .ne. 5) then
                            do j=5,i+1,-1
                                ep(j)=ep(j-1)
                                x(j)=x(j-1)
                                y(j)=y(j-1)
                                z(j)=z(j-1)
                            end do
                        end if
                        ep(i)=er
                        x(i)=xp
                        y(i)=yp
                        z(i)=zp
                    go to 35
                end if
            end do
        end do
    end do

```

(13)

[図31]

```

        continue
      end do
    end do
  end do

  end do
  write(*,*) 
  write(*,*) sqrt(ep(1)/float(na)), x(1), y(1), z(1)  (14)

  write(*,*) 
  go to 20

  stop
end

subroutine marray (xp, yp, zp, na, cl)
  real*4 cl (1)

  cl (1)=sqrt (xp*xp+yp*yp+(zp+50.0)**2)
  do i=2, na+1
    ixx=i/3
    iyy=i-ixx*3
    xm=float(ixx-1)*50.0-10.0
    ym=float(iyy-1)*50.0+10.0
    cl (i)=sqrt ((xp-xm)**2+(yp-ym)**2+zp*zp)
  end do

  return
end

subroutine mcycle (na, dth, al)
  real*4 al (1)

  do i=1, na
    continue
    if (al(i) .gt. dth) then
      al(i)=al(i)-dth
      if (al(i) .le. dth) go to 46
      go to 40
    end if
    continue
    if (al(i) .lt. -dth) then
      al(i)=al(i)+dth
      if (al(i) .ge. -dth) go to 46
      go to 45
    end if
    continue
  end do

  return
end

```

[図32]

Enter the location of x, y, z (cm) : 152, -203, 56

ΔL (cm)	x	y	z	
67.67562	-38.21133	-1.487458	39.09471	
-69.24731	-27.88023	16.30007	-91.74537	-46.11990
0.9732714	-102.0754	-54.30361	-5.570741	-98.28325
-51.46763	-3.269386			

RMS error (cm)	x	y	z	
0.6834297	150.0000	-200.0000	60.00000	
0.8562734	150.0000	-190.0000	50.00000	
1.116775	150.0000	-200.0000	50.00000	
1.163736	160.0000	-230.0000	70.00000	
1.216863	160.0000	-220.0000	60.00000	
8.4395386E-02	152.0000	-203.0000	56.00000	

Enter the location of x, y, z (cm) : 22, 123, -89

ΔL (cm)	x	y	z	
5.506481	57.46710	16.50204	-17.27929	
55.74849	14.06553	-20.41722	66.89948	28.19106
-2.332703	89.04320	55.22502	29.83902	119.4193
90.37129	69.39222			

RMS error (cm)	x	y	z	
1.445567	20.0000	130.0000	-90.00000	
1.754374	20.0000	130.0000	-100.0000	
1.951296	20.0000	120.0000	-80.00000	
2.345274	20.0000	120.0000	-90.00000	
2.709345	20.0000	140.0000	-100.0000	
6.2024966E-02	22.0000	123.0000	-89.00000	

Enter the location of x, y, z (cm) : 60, 161, 5

ΔL (cm)	x	y	z	
-23.45399	32.54938	-13.85323	-57.41031	
21.66080	-27.96993	-77.36571	22.85288	-26.38201
-74.96463	36.05470	-9.367880	-51.50449	59.00156
18.86572	-15.62937			

RMS error (cm)	x	y	z	
1.358104	60.00000	160.0000	10.00000	
1.400364	60.00000	160.0000	0.0000000E+00	
1.561480	60.00000	170.0000	0.0000000E+00	
1.779230	60.00000	170.0000	10.00000	
1.850774	60.00000	150.0000	10.00000	
4.4650473E-02	60.00000	161.0000	5.000000	

Enter the location of x, y, z (cm) :

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